

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 83-3  
NPDES PERMIT NO. CA 0037672

WASTE DISCHARGE REQUIREMENTS  
FOR  
CITY AND COUNTY OF SAN FRANCISCO  
NORTH POINT PLANT

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The City and County of San Francisco, hereinafter called the discharger has previously been issued permits for the North Point Water Pollution Control Plant by this Board under the National Pollutant Discharge Elimination System in Orders 74-162, 77-61, and 79-128.
2. The North Point Plant provides primary treatment, chlorination and dechlorination. Sludge is pumped to the Southeast Plant for processing.
3. The North Point Plant will treat exclusively wet weather flow upon completion of the Southeast Water Pollution Control Plant secondary treatment expansion, scheduled for November 1982. North Point dry weather flow will be transported for treatment at the Southeast Plant. Wet weather flow consists of the combined wastewater from surface runoff and sanitary sewage during periods of rainfall.
4. The North Point Plant effluent will be discharged through four forty-eight-inch diameter outfalls which terminate 800 feet offshore, two at the end of Pier 33 and two at Pier 35. The discharges are submerged at a depth of 17-26 feet below mean lower low water.
5. Wet weather operation of the North Point Plant will depend upon the coordinated operation of all the bayside combined wastewater control system facilities. These facilities consist of the North Shore Outfall Consolidation, North Point Plant, North Shore Pump Station, Channel Outfall Consolidation, Channel Pump Station, Islais Creek South Side Outfall Consolidation, and the Southeast Water Pollution Control Plant. (Attached drawing A)
6. Wet weather flow are intermittent in nature and subject to a high degree of variability throughout the wet weather season. Based on past rainfall records, the North Point Plant will be operated approximately 30-40 times per wet season, with the duration of each operation expected to average approximately 12 hours at a maximum flow rate of 140 MGD.
7. Wet weather flow in excess of the storage and treatment capacity of the combined bayside wastewater control system will be discharged through wet weather diversion structures. These overflows are regulated by NPDES permits adopted by the Board.

8. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975 and amendments on July 21, 1982. This plan contains water quality objectives for the San Francisco Bay and a conceptual approach for the control of wet weather overflows.
9. The existing and potential beneficial uses of the Central San Francisco Bay that could be affected by the discharges are:
  - a. Industrial Service Supply
  - b. Industrial Process Supply
  - c. Navigation
  - d. Water Contact Recreation
  - e. Non-contact Water Recreation
  - f. Ocean Commercial and Sport Fishing
  - g. Wildlife Habitat
  - h. Fish Migration
  - i. Fish Spawning
  - j. Estuarine Habitat
10. Effluent limitation and toxic and pretreatment effluent standards established pursuant to Sections 208(b), 301, 302, 303(d), 304, and 307 of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.
11. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
12. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
13. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from date of hearing provided the Regional Administrator, U. S. Environmental Protection Agency, has no objections.
14. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000) of Division 13 of the Public Resources Code in accordance with Water Code Section 13389.
15. The North Point Plant will provide the capability to treat dry weather wastewater from the North Point Area in the event of emergency circumstances making treatment at the North Point Plant preferable to treatment at the South East Water Pollution Control Plant. This capability will be addressed in the report to be submitted by the discharger according to provision 3. Any such discharge will be governed by the requirements contained in the southeast permit.

IT IS HEREBY ORDERED, that the City and County of San Francisco in order to meet the provisions contained in Division 7 of the California Water Code, and regulations adopted thereunder, and the provisions of the Federal Water

Pollution Control Act, and regulations and guidelines adopted thereunder shall comply with the following:

A. Effluent Limitations

1. The discharge of an effluent in excess of the following limits is prohibited:

	Units	(1)Annual Average	5 sample Median	Instantaneous Maximum
a. Settleable Solids	ml/l-hr	0.5	-	1.5
b. Oil & Grease	mg/l	20	-	40
c. Chlorine Residual	mg/l	0	-	0
d. Coliform	MPN/100ml	-	240	10,000

2. The discharge shall not have pH of less than 6.0 nor greater than 9.0.
3. Effluent shall be essentially free of material that is floatable or will become floatable upon discharge.
4. The survival of test fishes in 96 hour static or flow-through bioassays of the effluent shall be a 90 percentile value of not less than 50 percent survival if the discharge receives a minimum initial dilution of 10:1 and generally much greater dilution.

Exceptions to this limitation may be granted and revised toxicity requirements established if the following conditions are met:

- 1) The waste is discharged through a deepwater outfall which achieves rapid and high initial dilution;
- 2) The toxicants in the waste are nonconservative constituents which rapidly decay in the receiving water, or they are conservative constituents for which water quality objectives have been established. Effluent mass emission rates may be established for such nonconservative constituents; and
- 3) A thorough investigation has determined that such an exception will not adversely affect resident and/or migratory fish or other aquatic life.

- (1) Annual average shall be calculated over the period of 1 July-30 June

B. Discharge Prohibition

1. Discharge at any point where the wastewater does not receive an initial dilution of at least 10:1 is prohibited.

C. Provisions

1. The discharge of toxic substances shall be minimized through diligent implementation of a source control program and proper municipal wastewater treatment. The discharger shall maintain a program which will identify and minimize sources of toxic substances resulting from accidental spills and inadequate storage or handling of hazardous materials.
2. The discharger shall undertake all reasonable efforts to operate the bayside combined wastewater control system to its maximum capability to meet the following goals: minimize untreated overflows in compliance with other NPDES permits adopted by this Board; maximize secondary treatment of wastewater at the Southeast Water Pollution Control Plant; and operate the North Point Plant and Southeast Plant within the effluent limitations set by this Board. The Executive Officer will review the operation of this facility, the operational strategy report, any instances of non-compliance, effluent limitations, and any water quality impacts as documented by the self monitoring program, after the first full season of operation and bring a report to this Board on these issues.
3. The discharger shall submit to this Board a detailed operational report by July 1, 1983 which sets forth the strategy for operating the various components of the bayside combined wastewater control system to meet the goals of operation as defined in Provision 2 above. The report will address criteria to be used for sequencing the start-up and shut-down of various components of the bayside combined wastewater control system, and shall be updated by July 1 of each year.
4. The discharger shall submit to this Board by July 1, 1983 an updated Operation and Maintenance Manual for wet weather operation of the North Point Water Pollution Control Plant for purposes of providing plant and regulatory personnel with a source of information describing all equipment, facilities, and recommended operating strategies, process control monitoring, and maintenance activities. In order to remain a useful and relevant document, this manual shall be updated by July 1 of each year to reflect significant changes in plant facilities or activities. Documentation of operator input and review should accompany each annual update.
5. The requirements prescribed by this Order supersede the requirements prescribed by Board Orders 74-162, and 77-61, which are hereby rescinded.
6. The discharger shall comply with all items of the "Standard Provisions, Reporting Requirements and Definitions" dated April 1977 with the following changes:
  - a. Delete standard provision A.12., and B.3.
  - b. Delete section C. Definitions

7. The discharger shall comply with the Self-Monitoring Program as ordered by the Executive Officer.
8. This Order expires on August 1, 1984, and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date, as application for issuance of new waste discharge requirements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on, January 19, 1983.

Attachments:

Standard Provisions and Reporting  
Requirements 4/77

FRED H. DIERKER  
Executive Officer